

LAKE: BAY OF NAPLES (VLMP LEA)
 TOWN: NAPLES
 COUNTY: CUMBERLAND

MIDAS: 9685
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

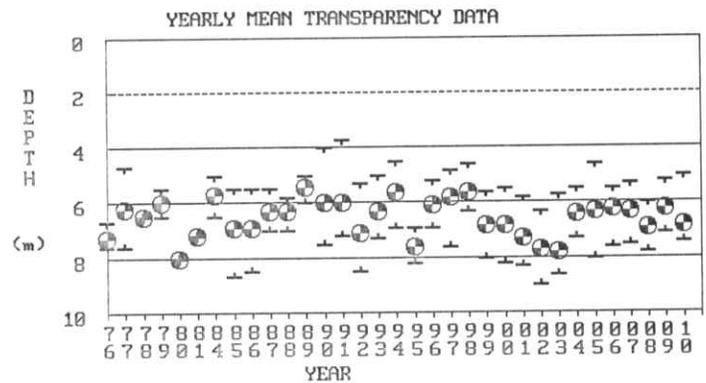
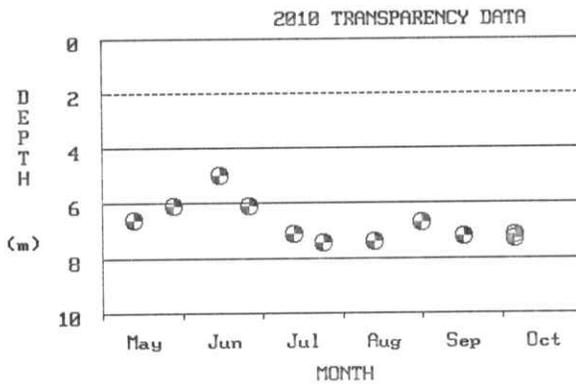
MAX. DEPTH: 13 m. (44 ft.)
 MEAN DEPTH: 4 m. (14 ft.)
 DELORME ATLAS #: 04
 USGS QUAD: NAPLES
 IFW REGION A: Sebago Lake (Gray)
 IFW FISH. MANAGMENT: Warmwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 297.0 ha. (733.9 a.)
 FLUSHING RATE: 10.81 flushes/yr.
 VOLUME: 14501664.0 cu. m. (11764 ac.-ft.)
 DIRECT DRAINAGE AREA: 8.80 sq. km. (3.40 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. BAY OF NAPLES has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

YEAR	MEAN COLOR (SPU)	MEAN pH	MEAN ALK (mg/l)	MEAN COND. (uS/cm)	TOTAL PHOS. MEANS (ppb)			SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES				
					EPI CORE	SURF GRAB	BOT. GRAB	PRO. GRAB	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
1976	-	-	-	-	9	-	-	-	6.7	7.3	7.6	3	0.9	1.5	2.3	-	-	-	-
1977	15	6.80	8.0	50	-	-	-	13	4.7	6.2	7.6	2	1.9	1.9	1.9	-	-	-	-
1978	-	7.50	12.0	-	-	-	-	-	6.5	6.5	6.5	2	-	-	-	-	-	-	-
1979	-	7.50	-	-	-	-	-	-	5.5	6.0	6.5	2	-	-	-	-	-	-	-
1980	-	-	-	-	6	-	-	-	8.0	8.0	8.0	1	-	-	-	-	-	-	-
1981	15	6.80	6.0	35	9	-	-	-	7.2	7.2	7.2	1	2.1	2.1	2.1	-	-	-	-
1984	27	-	-	-	-	-	-	-	5.0	5.7	6.5	5	-	-	-	-	-	42	-
1985	10	7.10	5.0	34	4	-	-	-	5.5	6.9	8.7	6	-	-	-	-	-	32	-
1986	-	-	-	-	-	-	-	-	5.5	6.9	8.5	5	-	-	-	-	-	32	-
1987	-	-	-	-	-	-	-	-	5.5	6.3	7.0	6	-	-	-	-	-	37	-
1988	13	6.48	10.0	-	10	-	-	4	5.8	6.3	7.0	5	-	-	-	-	-	37	-
1989	-	-	-	-	-	-	-	-	5.0	5.4	6.0	2	-	-	-	-	-	-	-
1990	-	6.70	8.9	-	-	-	-	7	4.0	6.0	7.5	4	-	-	-	-	-	-	-
1991	-	6.80	-	-	6	-	-	8	3.7	6.0	7.2	6	1.9	2.8	6.0	-	-	39	-
1992	-	-	-	-	-	-	-	8	5.3	7.1	8.5	5	-	-	-	-	32	31	-

WATER QUALITY SUMMARY

BAY OF NAPLES (BRANDY POND), NAPLES

MIDAS: 9685, Sample Station # 1

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms, and determine water quality trends. This dataset does not include data for bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring data have been collected from Bay of Naples since 1976. During this period, 25 years of basic chemical information was collected in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Bay of Naples is considered above average based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Bay of Naples is low.

Water Quality Measures: Bay of Naples is a non-colored lake (average color 15 SPU) with an average SDT of 6.5 m (21.5 ft). The range of water column TP for Bay of Naples is 5 - 10 parts per billion (ppb) with an average of 7 ppb. Chla ranges from 0.9 - 6.0 ppb with an average of 2.4 ppb. Recent dissolved oxygen (DO) profiles show moderate DO depletion in deep areas of the lake. The potential for phosphorus to leave the bottom sediments and become available to algae in the water column (internal loading) is low.

Bay of Naples is sampled in conjunction with the Lakes Environmental Association (LEA) located in Bridgton, Maine.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at <http://www.lakesofmaine.org/> and/or <http://www.maine.gov/dep/blwq/lake.htm>, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

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